

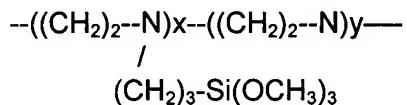
Application No. 10/780,302
Preliminary Amendment dated August 4, 2004

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

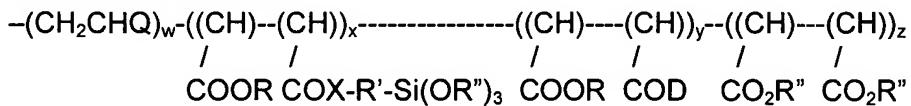
Listing of Claims:

Claim 1 (cancel): A polymer for the reduction of aluminosilicate containing scale according to the formula:



where x = 0.5-20%, y = 99.5-80%.

Claim 2 (cancel): A polymer for the reduction of aluminosilicate containing scale according to formula:



where

w = 1-99.9%, x = 0.1-50%, y = 0-50%, z = 0-50%; and

Q = C1-C10 alkyl, aryl, amide, acrylate,

ether, COXR where X=O or NH and R=H, C1-C10

alkyl or aryl, or any other substituent;

R = H, Na, K, NH4;

X = NH, NR'' or O;

R' = C1-C10 alkyl, or aryl;

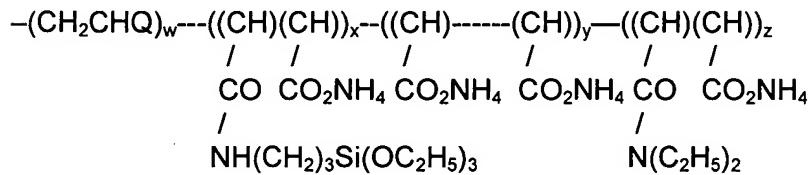
R'' = H, C1-C3 alkyl, aryl, Na, K or NH4; and

D= NR''2 or OR'', with the proviso that all R and

R'' groups do not have to be the same.

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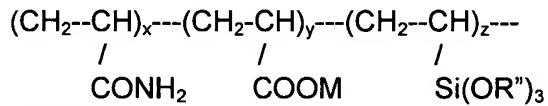
Claim 3 (cancel): The polymer for the reduction of aluminosilicate containing scale according to the formula:



where w = 1-99.9%, x=0.1-50%, y=0-50%, z=0-50%; and

Q is phenyl.

Claim 4 (cancel): A polymer for the reduction of aluminosilicate containing scale according to the formula:



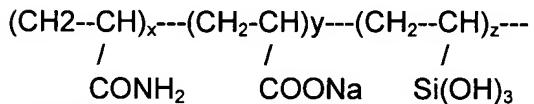
where:

x= 1-99%, y=1-99% , z=0.5-20% and

M = Na, K, NH₄; and

R'' = H, C1-C3 alkyl, aryl, Na, K or NH₄.

Claim 5 (cancel): The polymer for use in the reduction of aluminosilicate containing scale according to the formula:



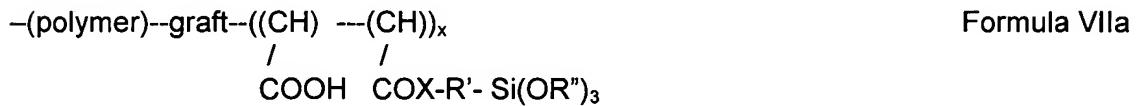
where:

x= 1-99%, y=1-99% , z=0.5-20%.

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Claim 6 (cancel): A polymer for use in the reduction of aluminosilicate containing scale, wherein the polymer is a graft copolymer of formula a or formula b:



where $x = 0.1 - 99\%$ (as percentage of monomer

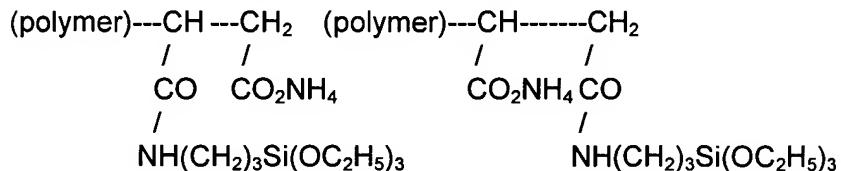
units in the polymer) and

X = NH, NR' or O;

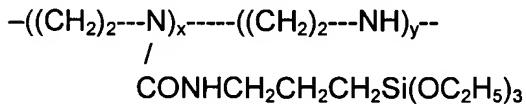
R' = C1-C10 alkyl, or aryl and

R'' = H, C1-C3 alkyl, aryl, Na, K or NH₄.

Claim 7 (cancel): The polymer for use in the reduction of aluminosilicate containing scale according to claim 6 according to the formula:



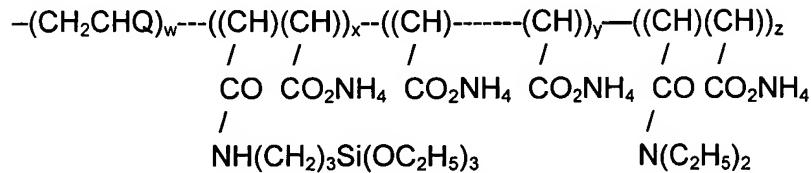
Claim 8 (new): A polymer for use in the reduction of aluminosilicate containing scale according to the formula:



where $x = 0.5-20\%$, $y = 99.5-80\%$.

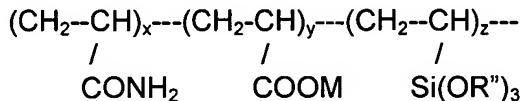
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Claim 9 (new): A polymer for use in the reduction of aluminosilicate containing scale according to the formula:



where w =1-99.9%, x=0.1-50%, y=0-50%, z=0-50%; and
Q is phenyl.

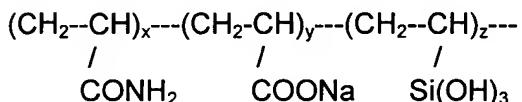
Claim 10 (new): A polymer for use in the reduction of aluminosilicate containing scale according to the formula:



where:

x= 1-99%, y=1-99% , z=0.5-20% and
M = Na, K, NH₄; and
R'' = H, C1-C3 alkyl, aryl, Na, K or NH₄.

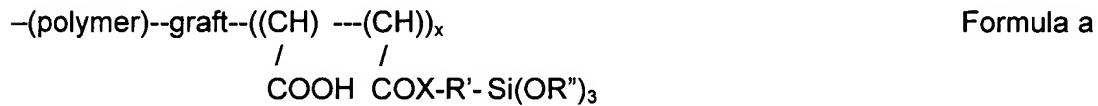
Claim 11 (new): The polymer in accordance with claim 10 according to the formula:



where: x= 1-99%, y=1-99% , z=0.5-20%.

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Claim 12 (new): A polymer for use in the reduction of aluminosilicate containing scale, wherein the polymer is a graft copolymer of Formula a or Formula b:



where $x = 0.1 - 99\%$ (as percentage of monomer units in the polymer) and
 $X = \text{NH, NR' or O;}$
 $R' = \text{C1-C10 alkyl, or aryl and}$
 $R'' = \text{H, C1-C3 alkyl, aryl, Na, K or NH}_4.$

Claim 13 (new): The polymer in accordance with claim 12 according to the formula:

